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IODONE - POST REQUEST DONE TO USER .TITLE

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FACILITY: F11ACP STRUCTURE LEVEL 1

ABSTRACT:

THIS ROUTINE POSTS I/O COMPLETION FOR THE INDICATED FCP REQUEST.

ENVIRONMENT:

STARLET OPERATING SYSTEM, INCLUDING PRIVILEGED SYSTEM SERVICES AND INTERNAL EXEC ROUTINES. THIS ROUTINE MUST BE CALLED IN KERNEL MODE.

AUTHOR: ANDREW C. GOLDSTEIN, CREATION DATE: 20-DEC-1976 11:25 MODIFIED BY:

Hai Huang V03-002 HH0051 21-Aug-1984 Call check_dismount before posting I/O completion.

ACG0320 Andrew C. Goldstein, 22-Change byte count handling to track IOPOST V03-001 ACG0320 22-Mar-1983 12:25

LJK0076 Lawrence J. Kenah 3-Nov-1981 Remove check for "queue previously not empty" when making software interrupt request. The request is always made. V02-001 LJK0076

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10DONE V04-000	- POST RE	QUEST DONE TO USER	16-SEP-1984 00:42:32 VAX/VMS Macro V04-00 5-SEP-1984 01:08:00 [F11A.SRC]IODONE.MAR;1	Page 2
	00000004 0000 0000 0000 0000 0000 0000	60 : EQUATED SYMBOLS: 62 : 63 PACKET =4 64 SARDDEF	: ADDRESS OF I/O PACKET ARG : DEFINE BUFFER PACKET OFFSETS : DEFINE 1/O PACKET OFFSETS : DEFINE UCB OFFSETS : DEFINE VCB OFFSETS : DEFINE PRIORITY LEVELS : DEFINE I/O FUNCTION CODES	

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VAX/VMS Macro V04-00 [F11A.SRC]|ODONE.MAR;1 LO

0000

OC

08

52

01 A2

0000°CF

00

20

0000°CF

80

8F

0040

OA

A6 57 3A 57 35

```
FUNCTIONAL DESCRIPTION:
                                                THIS ROUTINE POSTS I/O COMPLETION FOR THE INDICATED FCP REQUEST.
                                    CALLING SEQUENCE:
                                                CALL
                                                               IODONE (ARG1)
                                    INPUT PARAMETERS:
                                                ARG1: ADDRESS OF I/O PACKET
                                    IMPLICIT INPUTS:
                                                USER_STATUS: STATUS OF I/O REQUEST
                                    OUTPUT PARAMETERS:
                                               NONE
                                     IMPLICIT OUTPUTS:
                                                IOCSGL_PSBL: TAIL OF I/O POST QUEUE
                                    ROUTINE VALUE:
                                                NONE
                                    SIDE EFFECTS:
                                                I/O PACKET PLACED ON I/O POST QUEUE
                                                VOLUME CHECKED FOR DISMOUNT
                         101
                         102
                         104
105
   0000000
                                                .PSECT $CODE$, NOWRT, LONG
                         106
107
108
109
                                IO_DONE ::
                                                              *M<R2,R3,R4,R5,R6,R7> ; SAVE REGISTERS
PACKET(AP),R6 ; GET PACKET ADDRESS
W*USER_STATUS,IRP$L_MEDIA(R6); SET STATUS IN PACKET
#IRP$V_FCODE,#IRP$S_FCODE,-
IRP$W_FUNC(R6),R7 ; GET FUNCTION CODE WITHOUT GR7,#IO$_READPBLK ; IF READ PHYSICAL
10$
OOFC
                                                 WORD
   DO
7D
EF
                                               MOVL
                                                EXTZV
                                                                                                            GET FUNCTION CODE WITHOUT QUALIFIERS
   91
13
91
13
           001
001
001
001
                                                              R7.#10$_WRITEPBLK
                                                BEQL
                         114
115
116
117
                                                CMPB
                                                                                                             ; OR WRITE DO SPECIAL PROCESSING
                                                BEQL
                                    POST PROCESSING FOR ALL ACP FUNCTIONS: BUMP DOWN THE VOLUME TRANSACTION COUNT AND DO THE FIXUPS FOR THE BUFFER PACKET.
                         118
119
                                                              W^CURRENT_VCB,R4 : GET VCB ADDRESS
VCB$W_TRANS(R4) : DEDUCT THIS REQ FROM TRANS COUNT
#IRP$V_COMPLX.IRP$W_STS(R6).30$ : BRANCH IF NO BUFFER PACKET
aIRP$L_SVAPTE(R6).R4 : GET BUFFER DESCRIPTOR ADDRESS
<ABD$C_NAME*ABD$C_LENGTH>+ABD$W_COUNT(R4)
: INHIBIT WRITE-BACK OF NAME STRING

CABD$C_FIB*ABD$C_LENGTH>+ABD$W_TEXT(R4).R2

(R2).R3 : GET OFFSET ADDRESS OF FIB IN PACKET

R3.R2 : COMPUTE ABSOLUTE ADDRESS

#FIB$C_LENGTH,W^LOCAL_FIB.#0 -

CABD$C_FIB*ABD$C_LENGTH>+ABD$W_COUNT(R4).1(R2)
   DO
B7
E1
DO
B4
                                                DECW
                                                BBC
                                                MOVL
                                                CLRW
   9E
3C
CC
                                                MOVAB
                                                MOVZWL
                                                ADDL
                                                MOVC5
```

1000NE V04-000			- PO	ST REQ	UEST	DONE TO	USER	15 16-SEP-1984 00:42:32 VAX/VMS Macro V04-00 5-SEP-1984 01:08:00 [F11A.SRC]IODONE.MAR;1	Page	(2)
	0A 2A A6	01 05 04	E2 B0 11	0046 0046 004B 004F	131 132 133 134		BBSS MOVW BRB	P\$V_FUNC, IRP\$W_STS(R6), 30\$; IF READ BIT IS SET, K D\$C_ATTRIB, IRP\$W_BCNT(R6); ELSE DUMP ATTRIBUTE TE	CKET EEP KT	
				0051 0051 0051 0051	136 137 138 139		READ/WRIT RS COME T CLES VIRT	YSICAL, KNOCK DOWN THE VIRTUAL BIT IN THE PACKET. GH HERE, AND WE DON'T WANT TO SEE THEM AGAIN (I/O I/O ERRORS FOR ACP ERROR PROCESSING).	ONLY	
	2A A6	10	84	0051 0051	140		ASSUME BICB	SV_VIRTUAL LE 7 PSM_VIRTUAL, IRPSW_STS(R6); CLEAR THE VIRTUAL BIT		
	0000°CF	00	FB	0055	141 142 143 144 145	30\$:	CALLS	W*CHECK DISMOUNT : CHECK THE VOLUME FOR DISMOU	NT	
	0000000°FF	66	0E 04	005A 0061 0064 0065 0065	145 146 147 148 149 150		INSQUE SOFTINT RET), aloc\$GL_PSBL : INSERT PACKET INTO QUEUE L\$_10POST : SIGNAL I/O POST INTERRUPT		
				0065 0065	150		.END			

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Performance indicators

Phase	Page faults	CPU Time	Elapsed Time
Initialization Command processing	31	00:00:00.09	00:00:00.52
Pass 1 Symbol table sort	340	00:00:11.62	00:00:29:59
Page 2	45	00:00:02.09	00:00:04.49
Symbol table output Psect synopsis output	2	00:00:00.09	00:00:00.13
Cross-reference output Assembler run totals	575	00:00:00.00	00:00:42.46

The working set limit was 1200 pages.
64141 bytes (126 pages) of virtual memory were used to buffer the intermediate code.
There were 70 pages of symbol table space allocated to hold 1336 non-local and 2 local symbols.
254 source lines were read in Pass 1, producing 13 object records in Pass 2.
21 pages of virtual memory were used to define 20 macros.

Macro library statistics !

Macros defined

Macro Library name

\$255\$DUA28:[SYS.OBJ]LIB.MLB;1
\$255\$DUA28:[SYSLIB]STARLET.MLB;2
TOTALS (all libraries)

1415 GETS were required to define 13 macros.

There were no errors, warnings or information messages.

MACRO/LIS=LIS\$: IODONE/OBJ=OBJ\$: IODONE MSRC\$: FCPPRE/UPDATE=(ENH\$: FCPPRE) + MSRC\$: IODONE/UPDATE=(ENH\$: IODONE) + EXECML\$/LIB

0165 AH-BT13A-SE

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